

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/530,643
Source: PCT
Date Processed by STIC: 7/3/06

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 07/03/2006

PATENT APPLICATION: US/10/530,643

TIME: 12:00:05

Input Set : E:\56446-20041.00 - Seqlist.txt
 Output Set: N:\CRF4\07032006\J530643.raw

4 <110> APPLICANT: CAYOUETTTE, Michelle
 5 HANSEN, Connie Jo
 6 MCCLURE, Amy
 7 SUN, May
 8 GRAMATIKOVA, Svetlana
 9 DYCAICO, Mark
 10 BARTON, Nelson R.
 11 STEGE, Justin T.
 12 ABOUSHADI, Nahla M.
 14 <120> TITLE OF INVENTION: PROTEASES, NUCLEIC ACIDS ENCODING THEM
 15 AND METHODS FOR MAKING AND USING THEM
 18 <130> FILE REFERENCE: 564462004100
 20 <140> CURRENT APPLICATION NUMBER: US 10/530,643
 C--> 21 <141> CURRENT FILING DATE: 2006-04-07
 23 <150> PRIOR APPLICATION NUMBER: PCT/US03/32819
 24 <151> PRIOR FILING DATE: 2003-10-10
 26 <150> PRIOR APPLICATION NUMBER: 60/471,423
 27 <151> PRIOR FILING DATE: 2003-05-16
 29 <150> PRIOR APPLICATION NUMBER: 60/418,467
 30 <151> PRIOR FILING DATE: 2002-10-10
 32 <160> NUMBER OF SEQ ID NOS: 255
 34 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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 37 <211> LENGTH: 1305
 38 <212> TYPE: DNA
 39 <213> ORGANISM: Bacteria
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 43 accctgctag cgctactgtat cctgcccggat ctcgccccgg tggcgaccgc tgtatcctac 120
 44 aagacgctca tagtgaagat tgaccgtgog aagttcgacc cggagagggat gaaggcccta 180
 45 ggcggtcgat tgggtgtacgt cgcccaagctt gccccgggttgc ccatcctgtt ggtggccgt 240
 46 cacgctgcgg agcatgtcaa gaagctgcgg ggcgtcccttc acgtatccga ggatggcgag 300
 47 gtaaaaggcgat tcgcaggtagt atgtcgcta acccagccgc cgcagacaat gccgtggggc 360
 48 gtggactaca ttgacgctga gcagggtgtgg tcgataacga aaggcttcgtt agacgtcaac 420
 49 ggcgatggtg attccgagat cgaggttgccgtt gtgatagact ctgggtgttgc cctagaccac 480
 50 ccagaccccgccgataaacat caagtggtgcgttgc tcaacggcag gataagcaac 540
 51 agatgctccg atgtgaacgg ccattggtaatg cacgtgaccgc gcacgatagc cgcgttgac 600
 52 aacgagatag gcgttgcggat cgtcgccca gaggtcgaga tctacatgtt caaggccctc 660
 53 aagaactctg ggagtggctc ctggagcgcac ctcataatag ccattgacccgtt ggcgtgaga 720
 54 ggcggcggatgcgat ggcgtataga cgtgcacggc gacgggtgtga ttgtcggtga ccctggggac 780
 55 gacgcgcggatgcgat aagtctataatg catgagcctc ggtggatccgc atccaccacc agagctccat 840
 56 gaggtcatatgcgat cggcagccata cagctacggg atcgtgatcg tcggcggccgc gggcaacggat 900
 57 ggtcttagaca cggccagccata cccagcagca taccggaggat tcatacgccgtt gggccatc 960

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Input Set : E:\56446-20041.00 - Seqlist.txt
 Output Set: N:\CRF4\07032006\J530643.raw

58 gatgagaacg ccacggtgcc agactggagc aaccgcaacc cagaggtaac agccccaggc 1020
 59 gtcgacatac tcagcacata ccccgacgac agctacgcgg tgctaagcgg cactagcatg 1080
 60 gccaccccac acgtgagcgg cacagtcgctg ctaatccagg cagccaggct cgccccaggc 1140
 61 ctaccactac taccaccagg cacagaggac gacctaaccg cagacaccgt gagaggcatc 1200
 62 ctacacctaa cagcggtcga cctcggagac cccggctacg acacgctata cggtacggc 1260
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 68 <213> ORGANISM: Bacteria
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 71 <221> NAME/KEY: SIGNAL
 72 <222> LOCATION: (1)...(37)
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 77 Leu Leu Ala Leu Thr Leu Leu Ala Leu Leu Ile Leu Pro Ser Leu Ala
 78 20 25 30
 79 Pro Val Ala Thr Ala Val Ser Tyr Lys Thr Leu Ile Val Lys Ile Asp
 80 35 40 45
 81 Arg Ala Lys Phe Asp Pro Glu Arg Val Lys Gly Leu Gly Gly Arg Val
 82 50 55 60
 83 Val Tyr Val Ala Gln Leu Ala Pro Val Ala Ile Leu Val Val Pro Ala
 84 65 70 75 80
 85 His Ala Ala Glu His Val Lys Lys Leu Pro Gly Val Leu His Val Ser
 86 85 90 95
 87 Glu Asp Gly Glu Val Lys Ala Phe Ala Val Arg Val Ser Leu Thr Gln
 88 100 105 110
 89 Pro Pro Gln Thr Met Pro Trp Gly Val Asp Tyr Ile Asp Ala Glu Gln
 90 115 120 125
 91 Val Trp Ser Ile Thr Lys Gly Phe Val Asp Val Asn Gly Asp Gly Asp
 92 130 135 140
 93 Ser Glu Ile Glu Val Ala Val Ile Asp Ser Gly Val Asp Leu Asp His
 94 145 150 155 160
 95 Pro Asp Leu Ala Asp Asn Ile Lys Trp Cys Val Ala Val Leu Asn Gly
 96 165 170 175
 97 Arg Ile Ser Asn Arg Cys Ser Asp Val Asn Gly His Gly Thr His Val
 98 180 185 190
 99 Thr Gly Thr Ile Ala Ala Leu Asp Asn Glu Ile Gly Val Val Gly Val
 100 195 200 205
 101 Ala Pro Glu Val Glu Ile Tyr Met Ile Lys Ala Leu Lys Asn Ser Gly
 102 210 215 220
 103 Ser Gly Ser Trp Ser Asp Leu Ile Ile Ala Ile Asp Leu Ala Val Arg
 104 225 230 235 240
 105 Gly Pro Asp Gly Val Ile Asp Ala Asp Gly Asp Gly Val Ile Val Gly
 106 245 250 255
 107 Asp Pro Glu Asp Asp Ala Pro Glu Val Ile Ser Met Ser Leu Gly Gly
 108 260 265 270
 109 Tyr Asp Pro Pro Glu Leu Gln Glu Val Ile Ala Ala Tyr Ser

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112	290		295		300											
113	Pro	Ala	Tyr	Pro	Ala	Ala	Tyr	Pro	Glu	Val	Ile	Ala	Val	Gly	Ala	Ile
114	305		310		315											320
115	Asp	Glu	Asn	Ala	Thr	Val	Pro	Asp	Trp	Ser	Asn	Arg	Asn	Pro	Glu	Val
116	325		330		335											335
117	Thr	Ala	Pro	Gly	Val	Asp	Ile	Leu	Ser	Thr	Tyr	Pro	Asp	Asp	Ser	Tyr
118	340		345		350											
119	Ala	Val	Leu	Ser	Gly	Thr	Ser	Met	Ala	Thr	Pro	His	Val	Ser	Gly	Thr
120	355		360		365											
121	Val	Ala	Leu	Ile	Gln	Ala	Ala	Arg	Leu	Ala	Gln	Gly	Leu	Pro	Leu	Leu
122	370		375		380											
123	Pro	Pro	Gly	Thr	Glu	Asp	Asp	Leu	Thr	Thr	Asp	Thr	Val	Arg	Gly	Ile
124	385		390		395											400
125	Leu	His	Leu	Thr	Ala	Val	Asp	Leu	Gly	Asp	Pro	Gly	Tyr	Asp	Thr	Leu
126	405		410		415											
127	Tyr	Gly	Tyr	Gly	Val	Ile	Asn	Ala	Tyr	Asp	Ala	Val	Leu	Thr	Ala	Leu
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129	Asn	Ser														
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133	<211> LENGTH: 1572															
134	<212> TYPE: DNA															
135	<213> ORGANISM: Bacteria															
137	<400> SEQUENCE: 3															
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139	gccctcaccc	tcggctccct	ctccaccctc	ccggccgccc	ccgcaccggc	cgccccggaa										120
140	ggcgtcatcg	ggaacgcccgg	agccgaaggc	acgatcgccg	gcagctacat	cgtcaccctc										180
141	gacgagtcgg	cgcaggccga	gaccgccaag	ggccggccgg	tagcggccaa	tttcggcgcg										240
142	aagatcaagc	ggacctacac	ctcgccgtc	aacggctacg	ccgtcgaact	ctccgaggcc										300
143	caggcgaaga	agctcgcggc	cgacccccc	gtgacccctcg	tcgtccagaa	ccgcgttcc										360
144	cacgtcgcacg	gcacgcagcc	ctcccccgc	tcctgggtc	tggaccggat	cgaccagaag										420
145	gcccttcgc	tgaaccagag	ctacacctac	ccgcacaccg	cgggccagggg	cgtgacggcg										480
146	tacatcatcg	acaccggcgt	acgcacatcacc	cacagcgact	tcggcgcccg	cgctctctac										540
147	ggctacgacg	ccatcgacaa	cgacacacacc	gcccaggagacg	gccacggcca	cggcacccac										600
148	gtcgccggca	cggtcgcggg	cacctcgatc	ggcgtcgcca	agaaggcgaa	gatcgccggc										660
149	gtccgcgtcc	tgcacaactc	cggctccggc	acgaccgagc	aggtcgctcg	gggcacatcgac										720
150	tgggtcacgc	ggaacgcccgt	gaagccggcc	gtcgccaaca	tgagcctcg	cggtggcg										780
151	gacaccgtcc	tgcacgcacg	cgtccgcaac	tgcatacgct	ccggcgtcac	gtacgcgg										840
152	gcggccggca	acgacagctc	caacgcctcc	aactactcg	cggcgcgcgt	caccgaggcc										900
153	atcaccgtcg	gtccacacgac	caacacccgac	gcccgtcca	gtttctccaa	ctacggcacg										960
154	gtccctggaca	tcttcgc	gggctccctcc	atcaccctcg	ccttggaaacac	cagcgactcc										1020
155	gccaccaaca	ccatctccgg	tacgtcgatc	gcgacccccc	acgtcgccgg	cgccgcggcc										1080
156	gtctacctcg	ccggcaacccc	gacggccacc	ccggcgcagg	tctccacggc	cctcaccacc										1140
157	gccgccaccc	cgaacgtcg	caccaacccg	ggctccggct	ccccgaacccg	gctgtctac										1200
158	gtcggcgccg	gcaccaccc	cccgccccggc	ccgaagttcg	agaacaccgc	cgactacg										1260
159	atcgccgaca	acgcgaccgt	cgagtccccg	gtcaccgtca	gcccgtcag	cgccaacg										1320
160	cccgccgccc	tccaggtccc	ggtgaacatc	gtccacac	acatcggtga	cctccagatc										1380
161	cagctgatcg	ccccgacgg	ctcggcgtac	acgctgaagg	cottcggcac	cgccggcagc										1440

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162 tcggacaaca tcaacaccac gtacagcgtg aacgcctcct cgagggtcgc caacggcacg 1500
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 164 ctgcagttct ga 1572
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 169 <213> ORGANISM: Bacteria
 171 <220> FEATURE:
 172 <221> NAME/KEY: SIGNAL
 173 <222> LOCATION: (1)...(36)
 175 <400> SEQUENCE: 4
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 179 20 25 30
 180 Ala Ala Ala Pro Ala Ala Pro Glu Gly Val Ile Gly Asn Ala Gly Ala
 181 35 40 45
 182 Glu Gly Thr Ile Ala Gly Ser Tyr Ile Val Thr Leu Asp Glu Ser Ala
 183 50 55 60
 184 Gln Ala Glu Thr Ala Lys Gly Arg Ala Val Ala Ala Lys Phe Gly Ala
 185 65 70 75 80
 186 Lys Ile Lys Arg Thr Tyr Thr Ser Ala Val Asn Gly Tyr Ala Val Glu
 187 85 90 95
 188 Leu Ser Glu Ala Gln Ala Lys Lys Leu Ala Ala Asp Pro Ala Val Thr
 189 100 105 110
 190 Ser Val Val Gln Asn Arg Val Phe His Val Asp Gly Thr Gln Pro Ser
 191 115 120 125
 192 Pro Pro Ser Trp Gly Leu Asp Arg Ile Asp Gln Lys Ala Leu Pro Leu
 193 130 135 140
 194 Asn Gln Ser Tyr Thr Tyr Pro Asp Thr Ala Gly Gln Gly Val Thr Ala
 195 145 150 155 160
 196 Tyr Ile Ile Asp Thr Gly Val Arg Ile Thr His Ser Asp Phe Gly Gly
 197 165 170 175
 198 Arg Ala Ser Tyr Gly Tyr Asp Ala Ile Asp Asn Asp Asn Thr Ala Gln
 199 180 185 190
 200 Asp Gly His Gly His Gly Thr His Val Ala Gly Thr Val Ala Gly Thr
 201 195 200 205
 202 Ser Tyr Gly Val Ala Lys Lys Ala Lys Ile Val Gly Val Arg Val Leu
 203 210 215 220
 204 Asp Asn Ser Gly Ser Gly Thr Thr Glu Gln Val Val Ala Gly Ile Asp
 205 225 230 235 240
 206 Trp Val Thr Arg Asn Ala Val Lys Pro Ala Val Ala Asn Met Ser Leu
 207 245 250 255
 208 Gly Gly Gly Val Asp Thr Val Leu Asp Ala Ala Val Arg Asn Ser Ile
 209 260 265 270
 210 Ala Ser Gly Val Thr Tyr Ala Val Ala Ala Gly Asn Asp Ser Ser Asn
 211 275 280 285
 212 Ala Ser Asn Tyr Ser Pro Ala Arg Val Thr Glu Ala Ile Thr Val Gly
 213 290 295 300

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214 Ser Thr Thr Asn Thr Asp Ala Arg Ser Ser Phe Ser Asn Tyr Gly Thr
 215 305 310 315 320
 216 Val Leu Asp Ile Phe Ala Pro Gly Ser Ser Ile Thr Ser Ser Trp Asn
 217 325 330 335
 218 Thr Ser Asp Ser Ala Thr Asn Thr Ile Ser Gly Thr Ser Met Ala Thr
 219 340 345 350
 220 Pro His Val Ala Gly Ala Ala Val Tyr Leu Ala Gly Asn Pro Thr
 221 355 360 365
 222 Ala Thr Pro Ala Gln Val Ser Thr Ala Leu Thr Thr Ala Ala Thr Pro
 223 370 375 380
 224 Asn Val Val Thr Asn Pro Gly Ser Gly Ser Pro Asn Arg Leu Leu Tyr
 225 385 390 395 400
 226 Val Gly Gly Gly Thr Thr Pro Pro Gly Pro Lys Phe Glu Asn Thr
 227 405 410 415
 228 Ala Asp Tyr Ala Ile Ala Asp Asn Ala Thr Val Glu Ser Pro Val Thr
 229 420 425 430
 230 Val Ser Gly Val Ser Gly Asn Ala Pro Ala Ala Leu Gln Val Pro Val
 231 435 440 445
 232 Asn Ile Val His Thr Tyr Ile Gly Asp Leu Gln Ile Gln Leu Ile Ala
 233 450 455 460
 234 Pro Asp Gly Ser Ala Tyr Thr Leu Lys Ala Phe Gly Thr Gly Gly Ser
 235 465 470 475 480
 236 Ser Asp Asn Ile Asn Thr Thr Tyr Ser Val Asn Ala Ser Ser Glu Val
 237 485 490 495
 238 Ala Asn Gly Thr Trp Lys Leu Arg Val Thr Asp Asn Ala Asn Ala Asp
 239 500 505 510
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 241 515 520
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 244 <211> LENGTH: 3684
 245 <212> TYPE: DNA
 246 <213> ORGANISM: Bacteria
 248 <400> SEQUENCE: 5
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 251 cccgacacct tcaaggcgac ggcgagcacc accgtcaccc tcgtcacccg cgaccgc 180
 252 accctcacgg acctcgccgg cggccggaaag accgtcaccc tcgaccggc cgaggcg 240
 253 accggcgca tacgcagccg gatcgacgac ggcgggtca cgcgtcccc cgacgagg 300
 254 cgccccctacc tggactccgg cgcgctcgac ccggggctct tcgacgtcac cggcttagtc 360
 255 gaacagggcg tcacccggcga gctcccgtc atcgtcacct acggcggcaa gaccgc 420
 256 accggccggc cggcccccgg cggcgccgag accgtccgac cgctgccag catggcg 480
 257 gccgcccgtca cgcaccgca ccccgctcc ttctggcgcg gtttcaccgc cgccccg 540
 258 gcccggccg cgcggccgc caaggtctgg ctgcacggc gggtaaggc cgcgtggcc 600
 259 gagtccaacg cccagatcg caccggaaag gcctgggagg cggggctcac cggcaagg 660
 260 gtgaaggctcg cggtcctcga caccggcgcc gacctcgccc accccgaccc cgcggccgg 720
 261 gtcaccgagt ccaagtctgg ctcgacggc gggtaaggc cgcaccgaa cggccacggc 780
 262 acccacgtcg cctccaccgt cggcgccagc ggtggccgt cgcacggcaa ggagaagg 840
 263 gtcggccccc ggcaccct cggcggtggc aaggctca ggcacgggg cagcggtcc 900
 264 gagtcggaga tcatgcggc catggagttt gcccggcaagg acatcgacgc gaagatcg 960

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Output Set: N:\CRF4\07032006\J530643.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:201; N Pos. 2801,2802,2803,2804,2805,2806,2807,2808,2809,2810,2811
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Seq#:220; N Pos. 3211,3212,3213,3214,3215,3216,3217,3218,3219,3220,3221
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VERIFICATION SUMMARY

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Input Set : E:\56446-20041.00 - Seqlist.txt
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L:21 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:1098 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1101 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:20
L:1232 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1235 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:22
L:1319 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1322 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:24
L:1543 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1546 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:28
L:1672 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1675 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:30
L:1792 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1795 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:32
L:2007 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:2010 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:36
L:2168 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:2171 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:38
L:2465 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:2468 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:42
L:2574 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:2577 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:44
L:2709 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:2712 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:46
L:2836 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:2839 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:48
L:2949 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:2952 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:50
L:3086 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:3089 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:52
L:3272 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:3275 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:54
L:3437 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:3440 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:56
L:3568 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:3571 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:58
L:3767 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:3770 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:62
L:4144 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:4147 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:68
L:4274 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:4277 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:70
L:4398 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:4401 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:72
L:4520 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:4523 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:74
L:4659 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:4662 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:76
L:5056 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/530,643

DATE: 07/03/2006

TIME: 12:00:06

Input Set : E:\56446-20041.00 - Seqlist.txt
Output Set: N:\CRF4\07032006\J530643.raw

L:5059 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:82
L:5198 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:5201 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:84
L:5386 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:5389 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:86
L:5532 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:5535 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:88
L:5663 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:5666 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:90
L:5883 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:5886 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:94
L:5979 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:5982 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:96
L:6294 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:6297 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:102
L:6788 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:6791 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:112
L:6960 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:6963 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:114
L:7227 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:7230 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:116
L:7596 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:7599 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:122
L:7713 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:7716 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:124
L:7920 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:7923 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:128
L:8104 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:8107 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:132
L:8181 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:8184 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:134
L:8532 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:8535 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:140
L:8645 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:8648 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:142
L:8785 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:8788 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:144
L:9569 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:152
L:9573 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:152
L:9577 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:152
L:9581 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:152
L:10123 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:160
L:10127 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:160
L:10131 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:160
L:10230 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:160 after pos.:2043
L:10464 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:165
L:10528 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:166
L:10532 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:166
L:10536 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:166

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PATENT APPLICATION: US/10/530,643

DATE: 07/03/2006
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Input Set : E:\56446-20041.00 - Seqlist.txt
Output Set: N:\CRF4\07032006\J530643.raw

L:11016 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:173
L:11020 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:173
L:11024 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:173
L:11028 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:173
L:11118 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 173
L:11412 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:180
L:11484 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:181
L:11488 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:181
L:11492 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:181
L:11496 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:181
L:11887 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:188
L:11959 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:189
L:11963 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:189
L:12381 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:194
L:12385 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:194
L:12465 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:195
L:12469 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:195
L:12873 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:200
L:12949 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:201
L:12953 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:201
L:13095 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:201 after pos.:2720
L:13096 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:201 after pos.:2780
L:13097 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:201 after pos.:2840
L:13098 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:201 after pos.:2900
L:13099 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:201 after pos.:2960
L:13384 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:206
L:13388 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:206
L:13392 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:206
L:13560 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:206 after pos.:3309
L:13561 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:206 after pos.:3369
L:13562 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:206 after pos.:3429
L:13563 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:206 after pos.:3489
L:13564 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:206 after pos.:3549
L:13824 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:211
L:13908 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:212
L:13912 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:212
L:13916 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:212
L:13920 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:212
L:14374 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:220
L:14537 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:220 after pos.:3204
L:14773 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:223
L:14777 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:223
L:14859 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:224
L:14863 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:224
L:14867 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:224
L:14933 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 224
L:15233 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:230
L:15237 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:230
L:15305 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:231

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/530,643

DATE: 07/03/2006
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Input Set : E:\56446-20041.00 - Seqlist.txt
Output Set: N:\CRF4\07032006\J530643.raw

L:15925 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:236
L:15929 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:236
L:15933 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:236
L:15937 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:236
L:16085 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:236 after pos.:3087
L:16308 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:242
L:16378 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:243
L:16382 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:243
L:16386 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:243
L:16911 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:250
L:16915 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:250
L:17389 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:255